



Module

Development of Web Applications

(Entwicklung von Web-Anwendungen)

Summer Semester 2020

Module „Development of Web Applications“ (Entwicklung von Web-Anwendungen)

Mandatory (Pflichtmodul), 4. Semester:

033 526 **Wirtschaftsinformatik**

Elective (Wahlmodul):

033 532 **Medieninformatik und Visual Computing**

033 534 **Software & Information Engineering**

Module „Development of Web Applications“ (Entwicklung von Web-Anwendungen)

Courses

2.0h VU 188.951 Web Engineering

Registration Deadline 02.03. (**today!**), 23:55

2.0h VU 184.705 Semi-structured Data

To successfully complete the module, you have to successfully complete both courses

Project “Artmart”

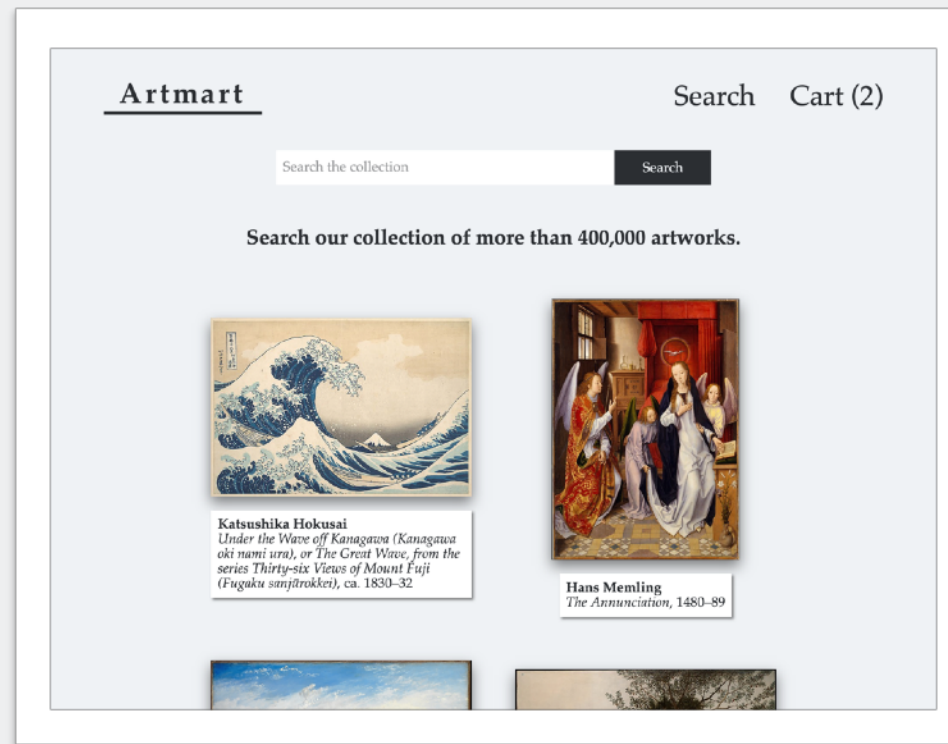
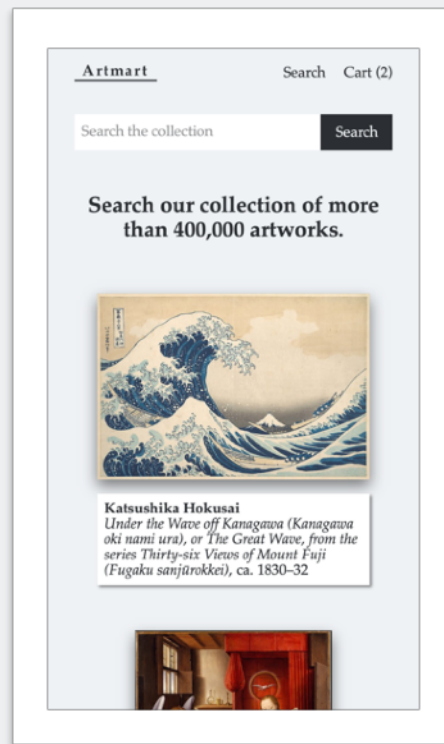
You are tasked with building the website for Artmart, a web shop for fine art prints.

The screenshot shows the Artmart website interface. At the top left is the 'Artmart' logo. At the top right are 'Search' and 'Cart (2)' links. Below the logo is a search bar with the placeholder text 'Search the collection' and a 'Search' button. A message below the search bar reads 'Search our collection of more than 400,000 artworks.' The main content area displays a grid of ten art prints, each with a title and artist information:

- Katsushika Hokusai**
Under the Wave off Kanagawa (Kanagawa ōki nami ura), or The Great Wave, from the series Thirty-six Views of Mount Fuji (Fugaku sanjūrokkei), ca. 1830–32
- Hans Memling**
The Annunciation, 1480–89
- Joseph Mallord William Turner**
Venice, from the Porch of Madonna della Salute, ca. 1835
- Pieter Bruegel the Elder**
The Harlots, 1565
- Vincent van Gogh**
Wheat Field with Cypress, 1889
- Albrecht Dürer**
Melencolia I, 1514
- Ferdinand Hodler**
The Dream of the Shepherd (Der Traum des Hirten), 1896
- Hans Holbein the Younger**
Erasmus of Rotterdam, ca. 1532
- Paul Cézanne**
Still Life with Apples and a Pot of Primroses, ca. 1890
- Thomas Eakins**
[Thomas Eakins and John Laurie Wallace on a Beach], ca. 1883

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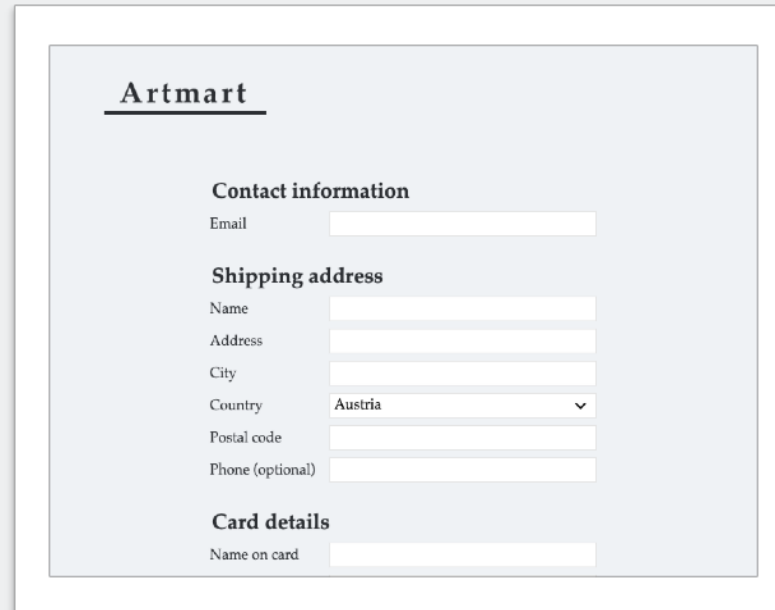
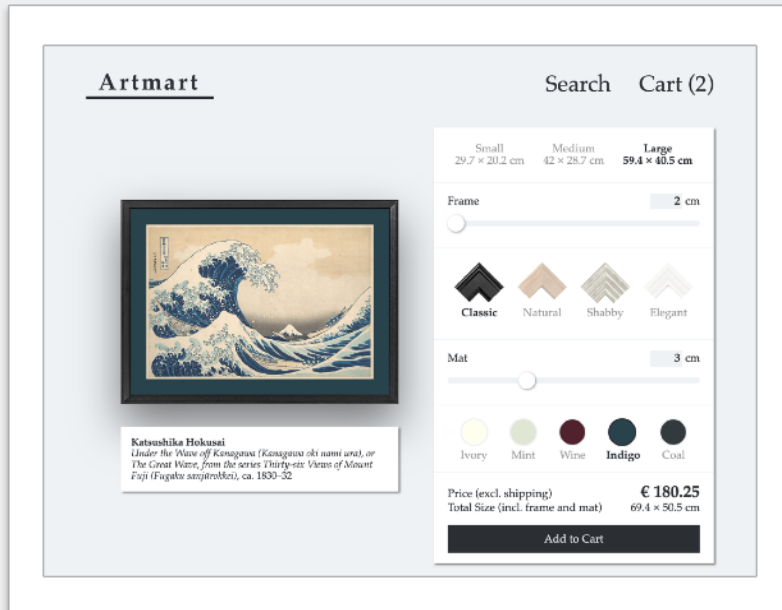
Assignment 1 (29.03):

Static HTML/CSS

- HTML5
- WAI
- CSS3
- Responsive Design

Project “Artmart”

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Assignment 2 (26.04):

Web Interactivity

- JavaScript/DOM
- Service Interaction (Metropolitan Museum)

Assignment 3 (10.05):

Backend

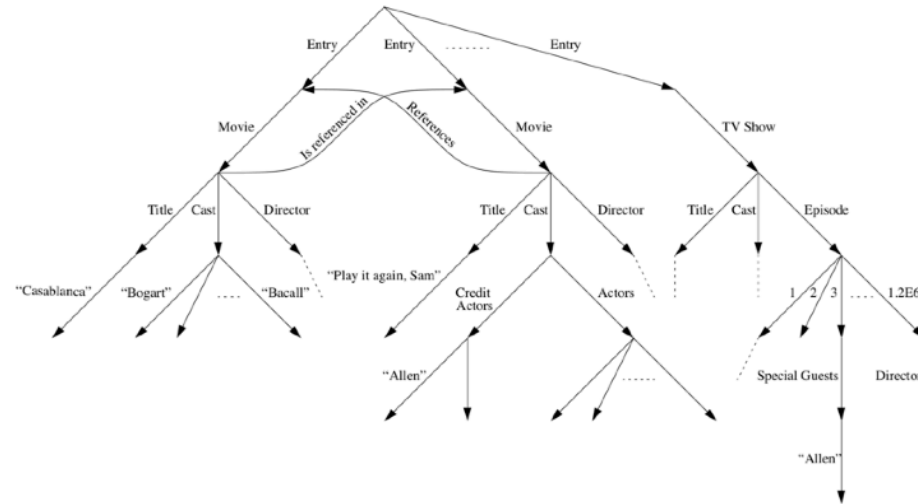
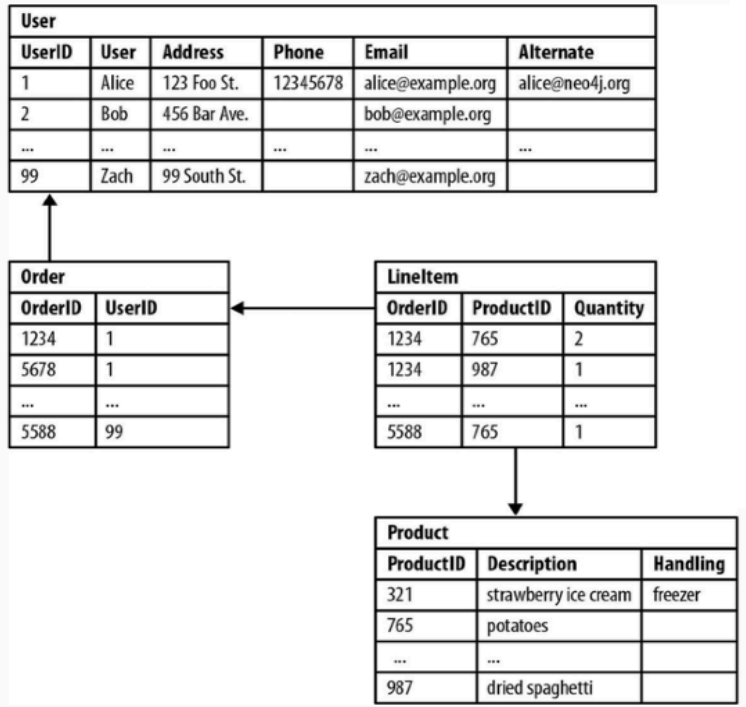
- Node.js
- REST API

Assignment 4 (31.05):

Frontend Abstraction

- Vue.js

The shift from **Structured Data** to **Semi-structured Data**
 (because Web data can hardly be structured / stored in a relational DB)



VU 184.705 Semistructured Data
 Starts on March 5 at 11:00